



PINWHEEL

THE WORLD'S FIRST FEVER-LEVEL WALKING ROBOT

MASTER GUIDE



PINWHEEL T1

Only in myth, can you walk in the sky ;
Only in fairytales, can you dive into the ground ;
Only in imagination, can you get away from gravity .

Only if you keep curious,
PINWHEEL can help you experience the joy of flying in the cloud like a bird.





The World Moves with Your Heart

Not all the cars can drive into your heart.

Driving Pinwheel is a kind of enjoying sensual pleasures. What makes it so irresistible? Is its high flexibility, the reaction of breaking out once you step on its pedals or the strong dynamical system? One unique Walking Robot, combines intelligence with fashion, drives it at will in the city as smoothly as the flowing water.

Unbeatable Magnetic Levitation Motor keeps it running at 22km/h, polymer and changeable battery brings you unprecedented driving mileage. Core system applied Aviation Gesture Control principle, Fuzzy Algorithm, Gyroscope System, Gravity principle and so on to achieve front and back, right and left's self-balancing. Driver controls it to accelerate and decelerate by adjusting his body angle, which makes uniting human being and car together come true. Seven driving safety control let you drive confidently and freely.



Unique Pinwheel is a creative short-distance walking robot which applied the current smart industry's high technology to fully upgrade all of the car's individual performance.

At last, thank you for choosing Pinwheel Walking Robot!

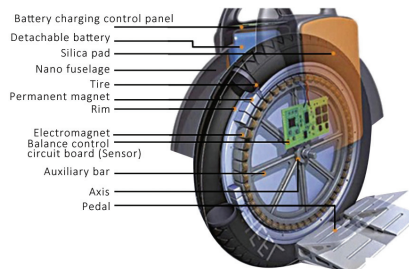
FLY IN THE WIND



Attention

1. Before riding, please read the manual carefully, check its parts and make sure it is safe to ride. Please contact the seller in time if any problems occur.
2. Please comply with the city's transportation laws. Not suitable for bumpy roads, riding in rainy or snowy weather.
3. Please put on the helmet, gloves, kneecap, elbow pad and so on protective equipment.
4. Considering large slope may cause accidents, we suggest not to climb slope exceeds 15 degree, although the max degree is 30.
5. Though this product is not afraid rainy and snowy weather, but it cannot ride in the water. When water submerges to the motor's metal part, it will cause short circuit and damage the machine. Please pay enough attention to this.
6. This smart wheel applied safe power, but please do not touch the battery's metal parts, and also cannot be touched by metal, otherwise it will cause short circuit.
7. Please do not disassemble its spare parts by yourself. If you need replacement, please contact us.
8. For other people's safety and keeping your PINWHEEL in good condition, please do not borrow PINWHEEL T1 to other people who don't know how to ride.

Pinwheel Structure

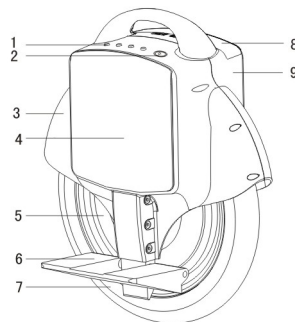


FLY IN THE WIND



Main Functions Diagram

1. LED Battery Indicator Light
2. Sunk Waterproof Metal Switch
3. New ABS+PC Material Housing
4. Nano High Elastic Silicone
5. High-speed Mute Motor
6. Aviation Aluminum Pedal
7. 14 inch Standard Tire
8. Battery Cover
9. Changeable 200WH Lithium Battery



32-bit Processor



Intelligent System



Strong Motor



Gravity Sensor



Turning
Compensation
Technology



Independent
Terpolymer
Lithium Battery



Balancing
Gyroscope



22Kmh/h



Range 22Km



14 inch Tire

FLY IN THE
WIND



Pinwheel Specification

Product Performance	
Max speed	16-22 km/h
Range	22KM-65KM
Max incline	15-30 degree
Changeable Battery	200WH
Applicable Temperature	-10℃ -40℃
Charger Voltage	AC200V 50-60HZ
Charging time	120mins
Motor	48V 220W-350W
Product Appearance	
Size	H450mm L395mm T168mm (minimum 75mm)
Pedal distance from earth	112mm (no load condition)
Tire size	14 inch 2.125 Standard pneumatic tire (14 inch solid tire optional)
Weight	9.7KGS
Protection Measures	
Incline protection	45° for right and left (motor ceases when exceeding 45°)
Limited speed protection	Activated when exceeding 16km/h (pedals rise up slowly)
Low battery protection	Activated at 10% left (slow down automatically)
Information Signals	
Power supply and error	Switch LED (light on lastingly, but flicker when protection activated)
Battery capacity	Battery LED indicators fully light on at or above 85% and decrease accordingly
Sound signals	"Di" (one "Di" for powering on, continuous "Di" for low battery protection)
Sound signals	Long "Di----"for incline protection

FLY IN THE WIND



Pinwheel T1 Features



Changeable Battery

Battery is changeable, convenient for long ranges, built-in independent USB module, which can be used as power bank for mobile devices.



Light weight, Convenient for carrying

9.7KG, humanized portable design, take it or leave it anytime and anywhere, unique design, save space.



Time saving, no traffic jam

22 km/h max speed, continuous riding for 22 km after fully charged. No long bother for traffic jams, save 500% time.



Fashion, casual and sport

Its unique design and excellent performance make you feel confident and satisfied, give you the sense of achievement.



Exercise cerebellum, strengthen physique

Long-term riding Pinwheel can exercise cerebellum and neural response ability, fully enhance your muscle, improve your body flexibility and technique.



Ten minutes quick start

Beginner can learn it with training wheels for basic control skills. Some beginner can learn it in ten minutes, some needs 2-3 days, and it depends.

FLY IN THE WIND



Safety Operation

Start

Put Pinwheel T1 vertically on the ground, push the power switch, and power indicator and battery indicators light on with a sound "Di". After above all, Pinwheel T1 is ready to ride. If Pinwheel T1 is inclined to front or back directions after pushing down power switch, please wait till it adjust automatically to be vertical to the ground.

Battery indicators

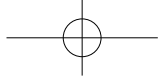
There are 4 LED indicators on top of Pinwheel T1. All of them light on when battery left above 85%. And all of them light off with a continuous sound "Di----" when less than 15%. Meanwhile, the pedals will sink to force you decelerate till stop. At this time, please do not start it to ride again.

Quick charge

Please open the battery's cover and plug the charger into the battery first, then plug charger's other side into socket. Otherwise, the charger will not be activated. This procedure can help to avoid potential danger and make charging safer.

Pinwheel T1 equip with high-power charger. Normally, it only needs 60mins for fully charging, and can reach 80% in 45mins. Charger's red indicator light on means being charged while green light on means charging completed. (Note: If it is not in urgent need, please unplug the charger after fully charged. Because the battery panel will proceed voltage balance maintaining at latter stage.)

FLY IN THE WIND



Pinwheel EasyPower

Detachable and **multifunctional** high-power battery

Pinwheel has a humanized and detachable battery—EasyPower with 200WH high-power, and possesses power bank's functions. It is capable for instant charging for various kinds of digital devices. It is the best choice for travelling outside.

Truly Multifunctional

EasyPower



Smart phones



Ipad



Cameras



Vidicon



Pinwheel



Bluetooth Earphones



EasyPower Parameters

Battery: 220Wh

Battery core: Polymer lithium

Charging time: 120mins

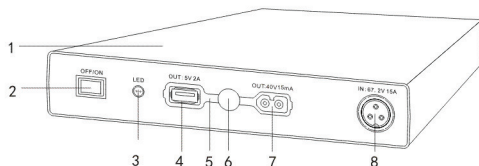
Do you know that?

1Wh=1000mAH

220Wh=220000mAH

100 times for phone charging

EasyPower Diagram



1. Battery casing

2. Battery output switch

3. LED switch indicator

4. USB OUT: 5V 2A

5. Three-proofing silicone plug

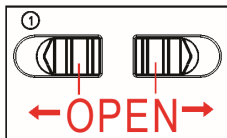
6. Battery bolt head

7. OUT: 40V 15mA

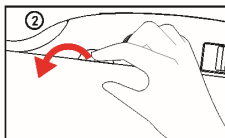
8. IN: 67.2V1500m



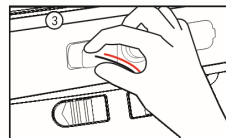
Battery Changing Illustration



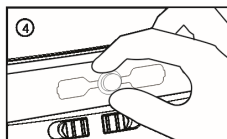
Lay the machine on the ground, turn battery cover upward, and then slide the cover buttons reversely.



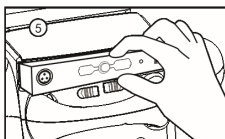
Dig the cover up by finger.



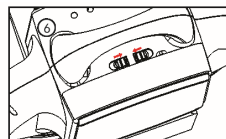
Unplug the connector to the battery.



Put the power lines to the notch, rotate the screw up a little bit till you can grab it by two fingers, then pull the battery out.



Put the fully charged backup battery into the battery bunker, and then plug the power lines.



Put the cover on, slide the buttons back.

Charging Attention

1. Keep it away from children while charging.
2. Do not use other brand charger for charging, and also do not use the original charger for other types of batteries.
3. The charger contains high-voltage circuit, please do not disassemble it.
4. Prevent liquid and metal filing seeping into the charger, be cautious of dropping and collision to avoid any damages.
5. Do not cover anything on the machine or charger while it is charging.

FLY IN THE WIND



Speed Limit Protection

In order to avoid danger or influent traffic, Pinwheel T1 limits its max speed. When speed over 16 km/h, pedals will rise up slowly while accelerating. When speed reaches 18 km/h, rising angle will be around 10° which makes it hard to accelerate by leaning body. The rising angle decreases while decelerating.

Warm prompt: To avoid getting hurt, please do not force to accelerate when reaching max speed.

Incline Protection

When Pinwheel inclines above 45°, such as falling down, the control system will activate incline protection, and then motor will stop to prevent getting hurt by high-speed rotated motor.

After incline protection activated, the buzzer release a long warning tone and power switch's LED continuously flickers.

Warm prompt: Power off and on again to relieve protection state.

Waterproof

Pinwheel T1's waterproof grade is IP5, water immersion less than 5cm and feasible to ride in small rain for short time. But please do not sunk it into water or ride it in rain for long time.

FLY IN THE WIND



Maintenance

Storage

Do not store Pinwheel T1 in humid places. If long time no use, please charge it once per two months to keep battery energy. Store the battery separately will be better.

Inflation

Due to limited space, PINWHEEL T1 needs extended air cock for inflating.

Tube&Tire replacement

When tube or tire needs repair or replacement, please operate at the side without indicators. Take off the screws around the machine and the pedal's connecting rod. And then the shell can be opened.

Attention:

- A. When maintenance completed, there may has instant sparkle while connecting the battery. This is normal phenomenon, please keep calm.
- B. To prevent any damage to Pinwheel's inside circuit, please do not open the cover with indicators. Otherwise it will be out of warranty.

FLY IN THE WIND



Warranty

Please keep warranty card and purchase invoice well. Due to unartificial damage or other problems, PINWHEEL T1 receives after-sales service according to the following clauses:

- One year warranty for the whole machine except for battery and consumable items.
- Half year warranty for battery; One month warranty for tube and tire which belongs to consumable items. The following is out of warranty:
 1. Fault due to not use it according to the "User Manual".
 2. Fault due to damage by user's self-refitting, self-disassembling and violating using rules stipulated in the manual.
 3. Fault due to user's improper storage or accidents.
 4. No warranty card, purchasing invoice or unmatched product.
 5. Appearance damage after using.
 6. Self-disassemble parts not stipulated in the manual.
 7. Damage due to long time riding in rain or soaking in water.



Walking speed
4~7km/h



PINWHEEL T1
Speed = 22km/h



Marathon max speed
20km/h



Bicycle normal speed
25km/h

FLY IN THE WIND



PINWHEEL

© 2014 ALL Rights Reserved.

FLY IN THE
WIND